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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/008,472	11/09/2001	David Hohl	LIFE052	5648

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EXAMINER

LIANG, REGINA

ART UNIT

PAPER NUMBER

2674

DATE MAILED: 09/15/2003

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/008,472

Applicant(s)

HOHL ET AL.

Examiner

Regina Liang

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-45 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1,2,5-12 and 14-45 is/are rejected.
- 7) ☒ Claim(s) 3,4 and 13 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 1, 2, 11, 12, 14, 20-28, 32, 33, 37-45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Burrell, IV (US. PAT. NO. 6,184,803) in view of Hoeksma (US. PAT. NO. 6,271,835).

As to claims 1, 2, 11, 12, 20, 23, 24, 27, Figs. 1, 3, 4 of Burrell, IV discloses a data entry device comprising a keypad (e.g., Fig. 3) including a plurality of first keys (the keys having numbers 1-9) and a plurality of second keys ("*", "0" and "#" keys), the first keys each having at least one primary alphanumeric character (numbers 1-9) and having at least one secondary alphanumeric character (letters A-Z) associated therewith. Burrell, IV also discloses the first key with the secondary alphanumeric character being operable upon actuation the secondary alphanumeric character in association with one of the second keys (e.g., see col. 8, line 60 to col. 9, line 57, wherein the secondary alphanumeric character "A" is produced by the actuation of the first key "2" key simultaneously with or followed by the actuation of (in association with) one second key ("*" key)).

Burrell, IV does not explicitly disclose the data entry device comprising a display field selectively displaying the alphanumeric characters. However, Burrell, IV suggests the

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apparatus comprising a display control interface (col. 2, lines 26-26). Hoeksma teaches a data input device comprising a display device for selectively displaying the selected alphanumeric characters. Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the data entry device of Burrell, IV having a display device as taught by Hoeksma for visually displaying the user inputted characters such that the user can confirm whether the key input is correct or not.

As to claim 14, Hoeksma teaches a touch screen in a superimposed relationship with the keypad.

As to claims 21, 22, 25, 26, Fig. 5A of Burrell, IV teaches selecting the primary alphanumeric symbol associated with the actuated first key (e.g., select number 2 by actuating the "2" key), and selecting one of the secondary alphanumeric symbols of the actuated first key by actuating a corresponding one of the second key (the secondary alphanumeric character "A" is produced by the actuation of the first key "2" simultaneously with or followed by the actuation of one second key "*" key).

As to claims 28, 32, 33, Hoeksma teaches entering a plurality of alphanumeric characters on the keypad to form a character string displayed on the display screen and processing data associated with the character string and entering the data into the memory (see Fig. 1 and col. 3, lines 62-65).

As to claims 37-45, Burrell, IV teaches the keypad having a plurality of hard keys (the keys having numbers 1-9) and a plurality of soft keys ("*", "0" and "#" keys).

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2. Claims 5-10, 15-19, 29-31, 34-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Burrell, IV and Hoeksma as applied to claims 1, 11, 24 above, and further in view of Will (US. PAT. NO. 5,825,353).

Burrell, IV as modified by Hoeksma teaches the data entry device comprising a memory, a direct memory access controller, stored programming, a display controller (see Fig. 1 of Hoeksma). Burrell, IV as modified by Hoeksma does not disclose the data entry device comprising a cyclic redundancy check circuit. However, Will teaches an input device comprising a cyclic redundancy check function in the microprocessor to perform a check value for the data (col. 16, lines 31-62). Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the data entry device of Burrell, IV as modified by Hoeksma to have the cyclic redundancy check circuit as taught by Will to make sure that there is no error in the data inputted.

Allowable Subject Matter

3. Claims 3, 4, 13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kaehler (US. PAT. NO. 5,128,672), Chang (US. PAT. NO. 6,320,942), Hashimoto et al (US. PAT. NO. 4,567,573), Hirshberg (US. PAT. NO. 6,597,345), Klausner et al (US.

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PAT. NO. 4,117,542), Jones (US. PAT. NO. 5,258,748), Tsubai (US. PAT. NO. 6,348,878), Balakrishnan et al (US. PAT. NO. 5,952,942).

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Regina Liang whose telephone number is (703) 305-4719. The examiner can normally be reached on Monday-Friday from 9AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached on (703) 305-4709.

Any response to this action should be mailed to:


Commissioner of Patents and Trademarks
Washington, D.C. 20231

or faxed to:

(703) 872-9314, (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.


REGINA LIANG
PRIMARY EXAMINER
ART UNIT 2674

RL
9/4/03